

Migrated Agent Communication

Outline

1. Intro
2. Hashing
3. Proxies
4. Experiment Domain

Introduction

- Mobile Agent VS Migrated Agents
 - autonomy of movement decision
- Tracking Agents
- Load Balancing

Caching

- Hash maps for local and remote agents
- Master directory for backups
 - Updates every step causes slowdown
- RMI easily implemented
- Longer to setup, but faster access to agents
- Difficult to track agents that move often

Proxies

- Uses proxy lists to track agent locations
- Master directory uses similar proxies
 - Might require less update time
 - More communication
- Reliably tracks frequently used agents
- Longer to access agents than caching
- RMI may not be possible

Experiment Domain

- Create agents to test implementation statistics
 - Couch potato agents– watch tv, talk to neighbors
 - Bipolar agents – hyperactive, depressed
 - Telemarketer agents - advertisement